

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P1031395

Luminaire Tested: S123DIW-B1000D755UB35-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1031395
REPORT IS A COMBINATION OF REPORTS P990829 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIW-B1000D755UB35-4F0-XX-W2A-F1
Description: Define 3 Direct/Indirect Wall Mount with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

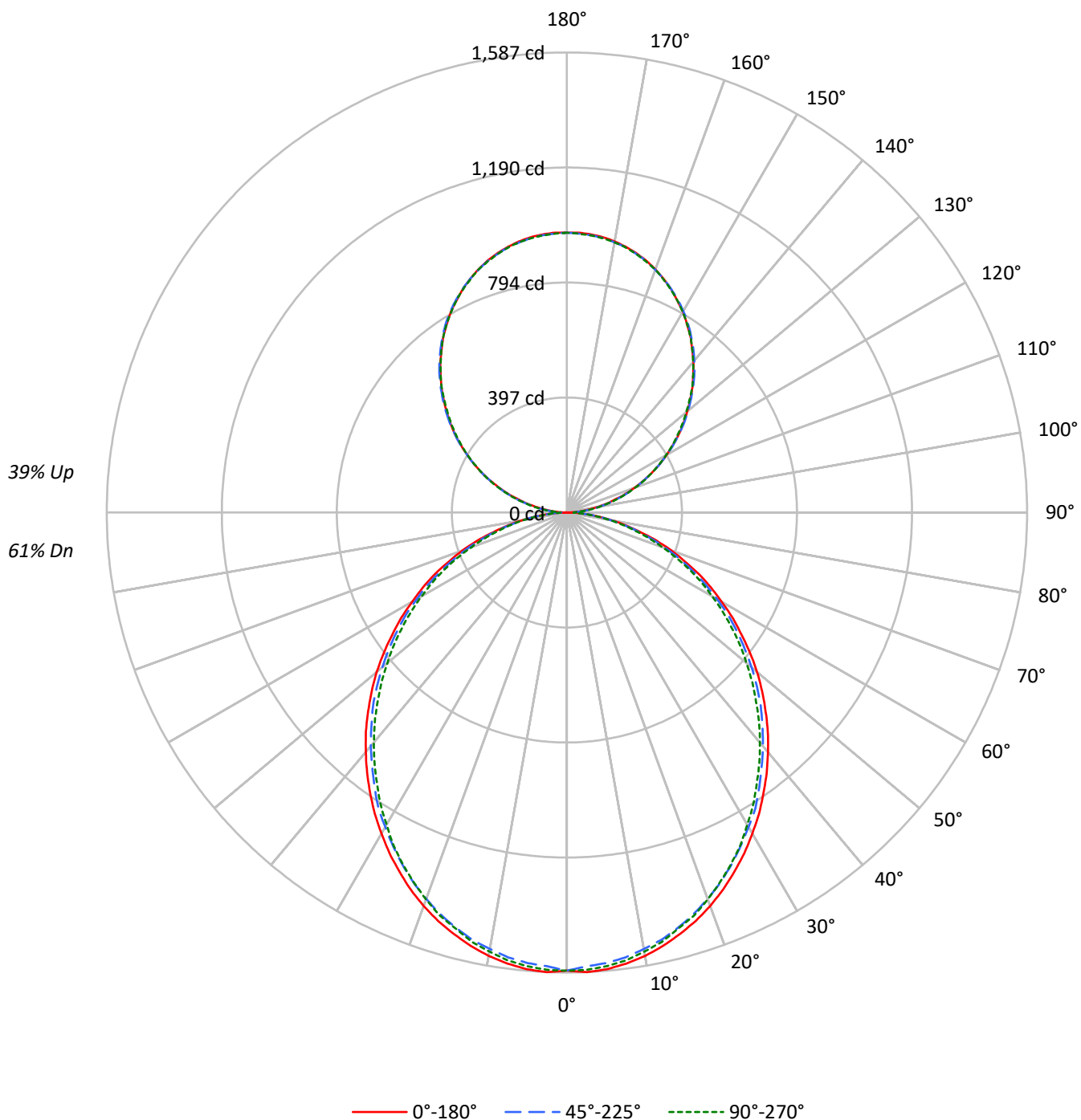
Lumens per Lamp: N/A
Luminaire Lumens: 6790.0 lumens
Efficiency: N/A
Efficacy: 97.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 70
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	110	110	110	110	103	103	103	103	89	89	89	77	77	77	66	66	66
1	100	96	92	88	93	90	86	83	78	76	73	68	66	64	58	57	56
2	91	84	77	72	85	78	73	68	69	64	61	59	56	53	51	49	47
3	83	73	66	60	77	69	62	57	60	55	51	53	49	45	45	42	40
4	76	65	57	51	71	61	54	48	54	48	43	47	42	39	40	37	34
5	70	58	50	44	65	55	47	41	48	42	38	42	37	34	36	33	30
6	64	52	44	38	60	49	42	36	43	37	33	38	33	29	33	29	26
7	60	47	39	33	56	44	37	32	39	33	29	35	30	26	30	26	23
8	55	43	35	29	52	40	33	28	36	30	26	32	27	23	28	24	21
9	52	39	31	26	48	37	30	25	33	27	23	29	24	21	26	22	19
10	48	36	29	24	45	34	27	23	30	25	21	27	22	19	24	20	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17011	17011	17011
5°	17053	16424	16400
10°	16902	15868	15705
15°	16666	15289	14948
20°	16397	14649	14199
25°	16048	13971	13398
30°	15667	13270	12555
35°	15267	12554	11718
40°	14848	11803	10894
45°	14389	11071	10033
50°	13921	10253	9168
55°	13321	9403	8294
60°	12702	8465	7362
65°	12121	7450	6390
70°	11285	6325	5257
75°	10080	5009	4081
80°	8703	3521	2886
85°	6791	1891	1445

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 14389 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.0	2.2
10°-20°	420.7	6.2
20°-30°	621.3	9.2
30°-40°	725.6	10.7
40°-50°	729.5	10.7
50°-60°	640.8	9.4
60°-70°	477.3	7.0
70°-80°	271.6	4.0
80°-90°	79.3	1.2
90°-100°	62.2	0.9
100°-110°	188.1	2.8
110°-120°	320.2	4.7
120°-130°	421.3	6.2
130°-140°	473.5	7.0
140°-150°	465.5	6.9
150°-160°	391.9	5.8
160°-170°	260.9	3.8
170°-180°	91.4	1.3
0°-30°	1191.0	17.5
0°-40°	1916.6	28.2
0°-60°	3286.9	48.4
0°-90°	4115.1	60.6
90°-120°	570.5	8.4
90°-150°	1930.7	28.4
90°-180°	2675.0	39.4
0°-180°	6790.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1580	1580	1580	1580	1580	
5°	1582	1575	1560	1574	1571	150
15°	1506	1500	1482	1493	1485	425
25°	1367	1359	1341	1343	1338	630
35°	1182	1174	1156	1148	1142	740
45°	969	963	946	930	923	748
55°	735	734	716	701	694	659
65°	501	495	481	470	466	495
75°	265	260	256	249	245	283
85°	71	68	68	65	65	76
90°	1	8	18	21	23	8
95°	45	50	56	59	59	49
105°	171	172	179	179	180	183
115°	322	325	323	324	323	319
125°	472	474	472	469	466	421
135°	612	617	616	613	611	472
145°	742	744	746	746	742	464
155°	850	850	851	854	849	391
165°	926	924	924	928	923	261
175°	963	960	960	965	959	92
180°	965	965	965	965	965	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1580.4	1580.4	1580.4	1580.4	1580.4
2.5°	1587.2	1581.7	1566.8	1580.4	1579.0
5°	1581.7	1574.9	1560.0	1573.6	1570.9
7.5°	1569.5	1562.7	1547.8	1560.0	1558.6
10°	1553.2	1546.4	1528.7	1541.0	1538.2
12.5°	1531.4	1526.0	1509.7	1517.9	1516.5
15°	1505.6	1500.2	1482.5	1493.4	1485.2
17.5°	1477.1	1470.3	1452.6	1460.8	1458.1
20°	1444.5	1436.3	1418.7	1424.1	1420.0
22.5°	1407.8	1399.6	1382.0	1386.1	1380.6
25°	1367.0	1358.9	1341.2	1342.6	1338.5
27.5°	1324.9	1316.7	1297.7	1299.1	1295.0
30°	1278.7	1271.9	1252.9	1252.9	1243.4
32.5°	1232.5	1223.0	1209.4	1199.9	1195.8
35°	1182.2	1174.1	1156.4	1148.2	1141.5
37.5°	1131.9	1121.1	1103.4	1093.9	1089.8
40°	1078.9	1070.8	1051.8	1040.9	1035.5
42.5°	1025.9	1016.4	997.4	986.5	981.1
45°	968.9	963.4	945.8	929.5	922.7
47.5°	913.2	905.0	888.7	872.4	867.0
50°	856.1	849.3	831.6	816.7	808.5
52.5°	796.3	792.2	773.2	761.0	752.8
55°	735.2	733.8	716.1	701.2	694.4
57.5°	678.1	672.6	659.1	645.5	637.3
60°	615.6	614.2	597.9	585.7	578.9
62.5°	559.9	555.8	539.5	527.2	523.2
65°	501.4	494.6	481.0	470.2	466.1
67.5°	438.9	433.5	422.6	413.1	407.7
70°	383.2	375.0	366.9	357.4	350.6
72.5°	324.8	319.3	309.8	301.7	299.0
75°	265.0	259.5	255.5	248.7	244.6
77.5°	212.0	209.3	203.8	198.4	198.4
80°	160.3	156.3	153.6	152.2	152.2
82.5°	110.1	110.1	110.1	107.4	106.0
85°	70.7	67.9	67.9	65.2	65.2
87.5°	35.3	31.3	29.9	28.5	28.5
90°	0.8	8.3	18.2	21.2	22.8
92.5°	22.8	27.3	31.9	34.1	32.6
95°	44.7	50.1	56.1	59.2	59.2
97.5°	73.6	77.4	81.9	85.7	84.9
100°	103.1	107.7	111.5	113.8	115.3
102.5°	137.3	139.5	144.8	147.1	146.4
105°	170.6	172.1	179.0	179.0	180.5
107.5°	210.1	210.8	213.9	216.1	215.4
110°	246.5	248.0	249.5	252.5	251.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	284.4	285.1	285.1	288.9	288.9
115°	322.3	324.6	323.1	323.8	323.1
117.5°	361.0	361.7	360.2	360.2	358.0
120°	396.6	401.2	397.4	396.6	395.1
122.5°	433.8	436.8	435.3	433.0	430.8
125°	471.7	474.0	472.5	469.4	466.4
127.5°	506.6	511.1	509.6	505.1	502.0
130°	541.5	547.5	545.3	542.2	536.9
132.5°	576.4	582.4	580.9	577.1	573.3
135°	612.0	616.6	615.8	612.8	611.2
137.5°	644.6	648.4	650.7	646.9	644.6
140°	678.7	682.5	683.3	682.5	677.2
142.5°	709.8	713.6	715.1	714.4	710.6
145°	742.4	744.0	746.2	745.5	742.4
147.5°	770.5	773.5	775.8	775.8	771.3
150°	800.1	801.6	803.1	803.1	798.6
152.5°	824.3	826.6	827.4	828.9	825.1
155°	850.1	850.1	850.9	853.9	848.6
157.5°	872.1	871.4	872.1	875.2	870.6
160°	892.6	891.1	891.1	894.9	891.8
162.5°	910.8	908.5	909.3	913.1	907.8
165°	926.0	923.7	923.7	928.2	922.9
167.5°	938.9	935.8	936.6	941.1	936.6
170°	949.5	946.4	946.4	951.8	946.4
172.5°	957.8	954.8	954.8	959.3	954.0
175°	963.1	960.1	960.1	964.6	959.3
177.5°	966.2	963.1	963.1	967.7	962.4
180°	965.4	965.4	965.4	965.4	965.4

(END OF REPORT)